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# The DX Bulletin

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• America's Oldest Weekly Amateur Radio Publication •

Issue 337 May 23, 1986

**Marion Island - ZS2MI** Once again the weather station crew on Marion Island off South Africa doesn't include an amateur, so ZS2MI won't be on for at least another year. However, there is hope for 1987, as Marion Island service counts for the required military service in the Republic of South Africa. If domestic conditions there worsen, more young amateurs might be willing to serve a year as a DXer, instead of a front-line soldier.

**Clipperton - FO0XX** The 1986 Clipperton crew got off the island without incident, after making nearly 16,000 QSOs in 4 1/2 days. The contacts were about evenly split between SSB and CW, with 20, 40, and 15 providing the bulk of the QSOs. As could almost be expected, the Europeans were less than pleased about FO0XX working stateside DXers after calling "CQ EU," and by the occasional choice of SSB listening frequencies within the US phone subband (such as listening for EU on 3803.) On the whole, however, plenty of EU stations got their best shot at Clipperton, especially on CW.

## Shortly Noted

- **6 meter DX** W1JR reports working a couple of Caribbean station on 6 meter SSB around 2200Z on May 11 during a good E-skip opening.
- **Argentine DXer** George Wagner K5KG will be on soon as LU6KG, QSL via K5TU. K5TU will also QSL George's /OH0, /OJ0, /VS6, J3ABP, and JY8GW operations.
- **Guernsey** DJ9ND, DK7UL, DF3JF, DF5JW, and DF5JM will operate /GU0 May 17-24.
- **Bermuda** KD2HE/VP9 should be on the air by the time you read this.
- **DXCC Honor Roll Stickers** The new DXCC Honor Roll stickers are not supposed to be affixed to the DXCC pin. Order a special DXCC Honor Roll pin for \$2.00.

## Contests and Awards

With North-South propagation often the only source of DXcitement, DXers might turn to a couple of South American contests to keep the antenna warm.

**The World Wide South American CW Contest** runs from 1500Z June 14 to 1500Z June 15, on 160, 80, 40, 20, 15, and 10 meters. Exchange RST and serial number from 001. Single ops work one band or all, multi/single stations all bands only. QSOs in own country 0 points (multiplier only), QSOs in same continent 2 pts, with other continents 4 pts., with SA stations 8 pts. Multipliers are DXCC countries and different SA prefixes per band. Logs to WWSA, Box 18003, 20772 Rio de Janeiro RJ, Brazil, by August 31.

**The Venezuelan Contest** runs the full 48 hours July 5-6 for SSB, July 26-27 for CW. Exchange RST and serial number from 001. QSOs in own country 0 points (multiplier only), QSOs in other countries 2 pts. Multipliers are US and YV call areas and DXCC countries per band. Logs by Aug. 15 (SSB) or Sept. 15 (CW) to Radio Club Venezolano, Box 2285, Caracas 1010-A, Venezuela.

**The FRO 40 Award** is available for working 40 points from Fravilliga Radioorganisationen (FRO) this year. This Voluntary Radio Organization in Sweden is celebrating its 40th anniversary, and will put 7S1-0FRO on the air May 24-June 1. Stations outside of Europe earn 10 pts for each 7S-FRO contact per band. Other FRO stations will sign calls starting with SL, with a Z as the first letter of the suffix: SL0ZZI. These count 3 pts for non-EU stations. Cost is 10 IRCs for US\$4 from FRO, Riddargatan 13, S-114 51 Stockholm, Sweden, with a log extract signed by two amateurs.



# PROPAGATION

## Propagation Forecast:

May 27 High Normal 30 Disturbed  
 28 High Normal 31 Below Normal  
 29 Disturbed June 1 Below Normal  
 Thanks N4XX. 2 Disturbed

Flux (81)	Flux (82)	Flux (83)	Flux (84)	Flux (85)	Date	Flux A	K
----1986----							
233	146	129	118	70	5/5	70	10/33 3
227	150	129	113	74	5/6	69	30/105 6
230	148	115	106	78	5/7	69	17/24 3
222	148	125	116	80	5/8	68	11/12 2
215	137	125	120	88	5/9	69	07/10 2
212	128	140	127	90	5/10	70	07/10 2
222	130	165	148	88	5/11	70	06/13 2

Thanks KH6BZF.

## Propagation Watch

The 27-day solar rotation may bring a recurrence of the solar storms that chewed up the bands in early May. Look for Disturbed conditions May 29-30, and again around June 2-3. But don't despair; solar storms frequently enhance propagation just before they hit. Look for short periods of excellent propagation the day before the storm!

## DXing the Polar Regions

As we approach the summer solstice, we encounter some unusual propagation in the polar regions. With 24 hours of daylight north of the Arctic Circle, the low bands are nearly useless. The JW, OY, OX, TF, Franz Josef Land, and XP stations in Bandpass this week are all on 20 meters. However, 20 meters is open most of the day at these locations, so look for north polar stations at odd times.

The opposite is true in the Antarctic: that continent is nearing 24 hours of darkness. Thus the most active Antarctic station, FT8YA, has almost no 20 meter openings. Look for Maurice on 40 and 30 meters, especially around 0500Z. Good DXing!

## QSL Help Wanted

In the eternal optimist department, W4JTL is looking for help confirming QSOs with EK1RW in the Tangier Zone, and MT2FU in Tripoli. The contacts occurred in 1949. [Confirming 37-year-old contacts is doubtful at best, as a lot can happen to logs and operators in that time. Obviously DXers should keep their QSLing current. -ed.]

Also, SP5PB would appreciate reconfirmation of any contacts since 1980. A fire wiped out his entire QSL collection. Thanks W8AH.

## Frequency Allocation Poster

In connection with the ARRL National Convention in San Diego this September, Bob Rover KB6DYM has produced a colorful 16"x20" poster of US radio frequency spectra from 300 kHz to 3 GHz. \$4.00 postpaid, or contact Bob about selling them at fleamarkets: 2135 Columbia St., San Diego CA 92101.

## The DX Bulletin Mailing Schedule

Next week TDXB will be mailed one day late (May 28th instead of the 27th) due to the Memorial Day holiday May 26. Subscribers who receive their TDXB by Second Class mail may upgrade to First Class service for \$0.50 per month remaining on the sub. Subscriptions expire on the last day of the month on the mailing label.

## More DX Gatherings

The Eastern Iowa DX Association is holding its Summer Banquet on June 14, in Cedar Rapids, IA. Bob Locker W9KNI is the banquet speaker. If you haven't heard Bob's hilarious trials as he pursued CW DXCC Honor Roll, make plans to attend this dinner. Contact Gary Toomsen K0GT for reservations: 1056 Eisenhower Road, Hiawatha IA 52233.

Saturday September 13 is the date of the Northern Illinois DX Association's W9DXCC DX Convention, at the Holiday Inn in Glen Ellyn, IL. Mike McGirr K9AJ will talk about the 1985 HC8X DXpedition, and ARRL President Larry Price W4RA will also speak. Contact Howie Huntington K9KM, 65 South Burr Oak Drive, Lake Zurich, IL 60047 for details.

## DXpeditions

Interested in a DXpedition this summer? Interested in having the IRS pay for part of the trip? Earthwatch is looking for volunteers to spend a few weeks working with professional scientists on research projects all over the world. Volunteers need no formal training; the researchers will fill you in on what you need to know to help. Expedition locations include Crete, Canary Islands, Tunisia, Swaziland, Malaysia, Tonga, Fiji, and many more. Earthwatch particularly likes amateur radio operators as volunteers, for the emergency communications capability. And research schedules typically allow ample time for DXing. Since Earthwatch is a qualified scientific funding organization, all trip expenses are fully tax-deductible. For more details on current expedition offerings, contact Earthwatch at Box 403, Watertown MA 02272 or call (617) 926-8200. [I operated as WA1SQB/CE0A from Easter Island and T32AW from Christmas Island under Earthwatch auspices, and can highly recommend the experience. -ed.]

# BANDPASS

RTTY							
3D2ER	14087	0637	14	CA	OH1AF	14095	1925 10 OH
5N8ZHN	14090	2348	5	RI	PA2NJC	14091	1546 13 CA
8P6MX	14093	2307	13	CA	PA3AAS	14096	1530 5 RI
8R1RPN	14095	2110	11	CA	PY2FR	14093	2307 13 CA
9H1EL	21090	1905	10	OH	PY2FR	14083	0046 6 OH
9H1EL	14088	1910	10	OH	PZ1DZ	14093	0056 13 CA
BY1PK	14080	0000	6	RI	SM5FUG	14088	1920 10 OH
DL2ZBQ	14096	2002	5	RI	SM7AIA	14087	1700 11 CA
DL3YAW	14095	1539	13	CA	SV1OM	14098	2120 7 RI
EA1QK	14097	2104	10	OH	TG9VT	14091	2201 11 CA
EA2CX	14083	2209	12	CA	TR8DX	14095	1749 11 CA
EA6WA	14078	2050	10	OH	TR8DX	14095	2035 11 OH
FE6BJY	14082	1743	11	CA	UT5RP	14098	1945 10 OH
FM5BX	14091	2216	13	CA	V44KT	14089	2210 11 CA
FY7AN	14096	2033	11	CA	VK4AAT	14080	0608 13 CA
HB9CAL	14091	1935	10	OH	VP2MO	14091	0110 6 OH
HC1SC	14098	0059	13	CA	YU4MB	14096	1715 13 CA
HC1SC	14096	0100	12	OH	YU4MB	14078	2118 5 RI
HC1SC	14091	0100	6	OH	ZF1RC	14091	2322 9 CA
HI3ADI	14084	1550	11	CA	ZF1RC	14097	1940 10 OH
HI8DLA	14083	1600	10	OH	ZF1RC	14081	2230 8 OH
HP1KZ	14088	2310	11	CA	ZK1CG	14098	0257 11 CA
IK8EEY	14098	1945	13	CA			
ISOVSG	14087	2045	10	OH			
IT9ICS	14083	1932	10	OH	160 MTRS		
IT9ZGY	21098	1900	10	OH	9H1CG	1832	0355 5 MA
LZ2KIM	14096	2102	7	RI	EA8AAU	1850	0453 8 RI
OA4BR	14095	0200	6	OH	F9YZ	1833	0355 3 WA
OH1AA	14098	1810	11	CA	F9YZ	1833	0343 3 MA



FD1LGE	1834	0355	3 MA	HP1XHY	7006	1033	8 GA
FOOXX	1827	0820	8 WA	HP3FL	7088	1141	8 GA
FOOXX	1827	0804	8 MA	HR1RC	7005	0530	4 MA
G4AAW	1835	0410	3 MA	LU1XQH	7010	0400	6 OR
JR7DPV	1912	1230	6 WA	PJ7VL	7029	1045	8 OH
KL7Y	1829	0950	4 WA	PZ1DV	7003	0055	8 MA
NL7GP	1826	1125	4 WA	PZ1DV	7002	0240	6 OH
PY1MAG	1832	0330	3 WA	TG9VT	7088	1141	8 GA
VK2ALN	1826	1129	4 WA	TI4BGA	7012	0425	3 MA
VK2RS	1831	1220	6 WA	UAODAR	7010	1150	9 OR
VK3BVS	1826	1120	4 WA	VK2QL	7010	1045	6 OH
VK3DGJ	1824	1155	4 WA	VK2ZC	7002	1100	9 OH
VK5BC	1825	1201	4 WA	VK8MQ	7002	1400	13 OR
VK5KL	1826	1141	4 WA	VK8MQ	7003	1445	12 OR
XE2NNZ	1834	0424	8 WA	VP2MU	7007	0058	9 GA

#### 80 MTRS

4U1UN	3795	0241	10 NH
7X2LS	3800	0137	10 NH
9H1EL	3508	0425	5 MA
C39LD	3790	0230	6 MA
EA8RCT	3795	0253	10 NH
EA9KF	3791	0103	6 NH
EM6AAK	3504	0145	8 MA
FOOXX	3506	1038	8 GA
FOOXX	3506	0800	11 FL
FOOXX	3506	0425	7 MA
FOOXX	3795	1103	8 WV
FOOXX	3506	1147	8 GA
FOOXX	3795	1130	8 GA
TI4BGA	3509	0420	3 MA
TI8CBT	3795	1003	9 GA
TU2MA	3799	0210	6 MA
YV1NX	3513	0308	8 GA

#### 40 MTRS

3B8CF	7006	0245	6 OH
6F2AHQ	7004	1200	7 GA
6F2AHQ	7007	1228	8 GA
6Y5JH	7013	0330	13 OR
8J8ITU	7023	1440	12 OR
AZ1ARU	7005	0405	3 IL
AZ1ARU	7006	0500	3 MA
CE1IDM	7005	2340	6 FL
CM2HR	7005	1045	6 OH
CM3VE	7009	0113	9 GA
CX9AU	7004	0358	3 IL
FK8FF	7008	1123	8 WV
FK8FF	7011	1118	8 OR
FK8SF	7003	0714	9 MT
FOOXX	7006	0331	9 AL
FOOXX	7080	0515	8 IL
FOOXX	7006	1143	8 GA
FOOXX	7005	0350	10 OH
FOOXX	7080	0311	8 GA
FOOXX	7085	0425	8 RI
FOOXX	7080	0357	7 MA
FOOXX	7006	1135	7 GA
FOOXX	7006	0300	9 FL
FO8BI	7002	0450	9 OR
FO8FO	7015	0550	4 MA
FT8YA	7007	0547	15 OR
HJ1LXJ	7017	0355	6 OR
HK1AMW	7010	1133	7 GA
HK1AMW	7001	1050	9 OH
HK1HHX	7011	1133	7 GA
HK1KYR	7028	0145	9 GA
HP1XHY	7009	1007	9 GA
HP1XHY	7006	1050	8 OH

#### ZL2KA

ZP5XDW	7005	0355	7 MA
ZV8WAS	7006	0132	6 WV
ZV8WAS	7007	0147	8 FL

#### 30 MTRS

FT8YA	10103	0458	9 OR
PZ1DV	10103	2115	7 MA

#### 20 MTRS

3B8FQ	14025	1218	12 GA
4N2AA	14022	2049	8 WV
4X6RA	14168	2331	15 MA
4Z4UW	14022	0415	13 CA
5H3ZR	14182	2051	6 WV
6F2AQ	14010	0105	14 OR
6F2AQ	14010	0100	14 CA
6Y5JH	14004	2304	11 FL
7X2LS	14187	2308	12 NH
8R1RPN	14195	0030	10 NH
8R1RPN	14203	0949	14 MA
9Y4NW	14012	0105	9 MT
BY1PK	14027	0630	10 OR
BY8AC	14040	0015	10 OR
CE0ZIG	14015	0104	12 GA
CE0ZIG	14021	2307	11 FL
CN8EA	14230	2248	8 MT
CN8EA	14204	1220	11 NH
CO2HT	14003	2216	9 FL
CP5/	14194	0050	5 MA

#### PT8ZCB

CP6IB	14003	1909	11 FL
CT3RG	14013	2158	7 FL
CU2AK	14199	2249	9 MT
EA6DI	14063	1146	11 GA
EA6DI	14043	2322	10 FL
EA8AGH	14002	2215	9 FL
EA9FD	14030	2224	9 FL
EK1P	14037	2237	10 AL

#### Franz Josef Ld

EK9AD	14028	2154	10 FL
EM2C	14020	0426	9 CA
EM7BFI	14005	2033	8 WV
EM7BRN	14018	1252	9 AL
EO1AOA	14020	0450	8 CA
EO1AOA	14035	1224	8 WV
EO2QGL	14209	1303	8 WV
EO2QGL	14067	1200	9 GA
EO2QGL	14035	1518	9 OR
EO5BIM	14231	2053	8 WV
ER3A	14024	1223	9 AL
ER3A	14023	1201	8 GA

**Reports Wanted, Especially RTTY, 30 meters:** Please write or phone for report forms and envelopes: 814 Fourth St, Suite 1001, Santa Rosa, CA 95404 (707) 523-1001. Office hours: weekdays 1400-2200Z. At other times, answering machine picks up on second ring.

EU1Q	14026	1635	8 PA	UI8BI	14048	0118	11 FL
EU1Q	14036	2039	8 WV	UI9AWD	14044	0217	11 GA
EV9AW	14222	1140	8 WV	UI9AWD	14032	0113	11 FL
EV9AX	14210	1146	8 WV	UI9AWD	14032	0057	11 AL
EW3A	14051	1205	8 GA	UI9BWA	14069	1656	11 AL
EW6AA	14192	1520	7 WV	UI9BWJ	14025	0108	11 FL
EW7BF	14026	1225	8 GA	UJ9JWA	14066	0217	11 AL
FM5BZ	14007	2237	9 FL	UL7AAS	14066	1845	11 FL
FOOXX	14180	1747	7 CT	UL7CW	14030	0111	11 FL
FOOXX	14021	0145	8 FL	UL7EAR	14015	0110	12 OH
FOOXX	14020	1530	10 OH	UL7JW	14028	0110	11 FL
FOOXX	14020	0150	9 PA	UL8AWA	14032	1858	11 FL
FOOXX	14020	1600	8 PA	UL8AWH	14032	1324	15 OR
FOOXX	14021	0448	8 IL	UL8BWW	14013	0132	11 FL
FOOXX	14020	0017	8 GA	UL8CWI	14013	0140	12 OH
FOOXX	14180	2200	7 FL	UL8CWJ	14007	0240	12 OH
FOOXX	14021	2342	8 AL	UL8LWA	14044	2337	10 AL
FOOXX	14180	0045	10 NH	UL8LWO	14031	1435	11 FL
FOOXX	14020	2230	8 PA	UL8LWO	14027	1315	11 GA
FOOXX	14180	0330	7 MA	UM8DX	14054	2008	11 AL
FOOXX/MM	14180	0235	6 NH	UM8DX	14059	1548	11 FL
GDOBDJ	14006	2233	9 FL	UM8MZ	14028	0049	11 AL
HP1XHY	14023	2306	11 FL	UM8QB	14033	0114	11 FL
HR1VFB	14168	2331	15 MA	UM8QB	14033	0058	11 AL
HS1AMS	14227	0017	10 NH	UN1BR	14052	1341	15 OR
IMOJOO	14203	1840	4 WV	UQ2GMB	14059	1159	9 GA
J28EG	14018	2323	8 AL	UT5YP	14008	0340	12 CA
J28EG	14018	2304	8 MT	UV100	14011	0030	10 OR
J28EL	14236	2026	6 WV	UV100	14010	1423	11 FL
JWOA	14020	0306	13 OR	UZ2FWA	14027	2237	10 FL
JW5E	14185	1659	11 MT	UZ2FWA	14026	2149	10 AL
JW6WDA	14208	1303	11 AL	UZ9AWZ	14028	1230	11 OH
JW6WDA	14209	1249	11 NH	UZ9JWI	14195	0116	13 NH
OD5YU	14226	2202	8 NH	V44KAR	14198	2337	4 IL
OX3UD	14039	2001	7 WV	VK0SJ	14180	0420	4 MA
OY2H	14030	1528	11 FL	VK6VU/M1	14212	0059	13 NH
OY7ML	14027	1531	11 FL	VP2MU	14028	2130	8 PA
PJ2LS	14011	2258	6 MT	VQ9RB	14187	2140	4 WV
PJ7A	14023	2208	9 FL	VR6TC	14192	0504	8 WV
PYOFNI	14010	2329	8 AL	VR6YL	14180	0315	8 NH
RD6DAA	14009	0505	15 OR	VR6YL	14192	0506	8 WV
RL7JA	14018	1330	15 OR	VR6YL	14026	0317	15 OR
RL8PYL	14235	1238	11 NH	VR6YL	14178	0150	7 MA
RL8PYL	14054	1428	11 FL	VR6YL	14178	0318	8 RI
RR2RW	14013	1421	11 FL	VU2CK	14182	0120	12 OH
RTOU	14187	1337	7 WV	VU2DDT	14195	0201	12 MT
SV5/	14197	2018	6 WV	VU2GI	14010	0158	11 FL
DL7FT				VU2HI	14169	0115	12 OH
T77C	14027	2223	9 FL	VU2ISV	14028	0139	11 AL
TE4T	14027	2228	9 MT	VU2UGI	14010	0139	5 OR
TF3KG	14026	1901	11 FL	XP1AB	14213	2220	9 MT
TR8RAL	14002	1424	11 FL	YJOABS	14175	0422	10 MT
UA0OI	14160	2343	4 IL	YK/	14196	1939	9 MT
UA1PAO	14184	0115	12 OH	OE5JTL			
UA2FH/R	14012	2253	10 AL	YO3RH	14014	0320	13 CA
UA9MA	14042	1248	9 AL	ZP5LOB	14213	0340	3 MA
UA9YE	14176	0123	11 NH	ZP5XDW	14027	1155	12 GA
UD7DWZ	14164	0217	15 MA	ZV2KT	14037	2258	10 FL
UD7DWZ	14031	2156	10 FL				
UF6FCO	14049	0257	11 AL	15 MTRS			
UF6FFF	14017	2025	8 WV	EA6XN	21037	2147	10 FL
UF6FJ	14202	0403	11 AL	FOOXX	21021	2131	9 FL
UF6FJ	14035	2015	8 WV	FOOXX	21295	2229	8 GA
UF6FJ	14031	1500	8 PA	FOOXX	21021	2239	7 IL
UF6FQ	14036	2017	8 WV	PJ9EE	21295	2234	8 GA
UG7GWL	14191	0323	11 AL				
UH8EWW	14040	0252	11 AL	10 MTRS			
UI8AP	14023	0225	13 OR	FOOXX	28595	2035	10 OH
				FOOXX	28021	2145	10 FL

**Key to Bandpass:** Callsign, frequency, UTC, day of month, state. \* = long path. All 'portable' calls are listed with country of operation first, regardless of format used on the air.



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A A LAUN K3ZO  
5801 HUNTLAND ROAD  
TEMPLE HILLS MD 20748

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**The DX Bulletin**

## CALENDAR

Issue 337 May 23, 1986

(Changes in **boldface** for easy spotting)

<b>Algeria - 7X</b>	7X2LS 2300-0200Z 20 and 80	So Shetlands	HF0POL 0600Z 14220 I332
<b>Antarctica -FT</b>	FT8YA 7010 0400Z I337	So. Cooks - ZK1	N5RM June 10-16
		St Pierre - FP	AA1V/FP May 24-25
Barbados - 8P6	8P6AR by N6AUV for WPX CW		K1RH July 11-22
Cameroon - TJ	TJ1CH 14232 at 2145Z <b>62</b>	Sudan - ST	ON7IP/ST2 18-2100Z 20m
Caymans - ZF8	ZF8SB 14170 at 2200Z	Svalbard - JW	JW5E until June 1 I332
Cen. Africa -TL	TL8CK + KH 15m SSB 2000Z	<b>Syria - YK</b>	JW0A 20cw 1400 + 2030Z
Chad -TT	TT8CW 'til May 30 by F6AJN	Tahiti - FO	OE5JTL/YK Golan Heights
China - BY	BY1QH, BY5RF active 20 SSB		
Fiji - 3D2	N5RM May 19-28, and WPX CW		FO8BI and BO very active
Fr Josef Land	UA1OT+UV100 - see Bandpass	Taiwan - BV	K8JRK May 9-17
Guam - KH2	AH2BE 14190 at 1330Z	Tanzania - 5H	FO0ASJ (N5DD) from Jun. 10
<b>Guyana - 8R</b>	8R1RPN 20 M, and RTTY		N5RM June 17-25
		Wake Is. - KH9	BV2B 14041 1430Z
India - VU	Try 20 01-2000Z	W Somoa - 5W	5H3ZO active 14020-30
Kermadec - ZM8	ZL8OY until late summer	Zimbabwe - Z2	NH6FU/KH9 14225 at 0100Z
Liechtenstein	HB0/DA1WA May 22-June 2		KB1CM and WB5VZL WPX CW
Malta - 9H	9H3DX by DF2UU Jul. 11-31		
Mauritania -5T	5T5RG 15m CW 1630		
<b>Mauritius - 3B8</b>	3B8CF 7006 0245Z		
	also 3B8FQ 14025 1218Z		
Mayotte - FH	FH/F6DZD 'til May 30 +RTTY		
Mongolia - JT	0300-0230Z on 20m		
<b>Morocco - CN</b>	CN8EA 14200+ 1200, 2300Z		
Nepal - 9N	9N1MM 14208 0100		
N. Caledonia FK	20m SSB 0400Z		
<b>New Hebrides YJ</b>	YJ0ABS 14175 0400Z		
Pakistan - AP	AP2SQ 14197 0200		
Sao Tome - S9	S92LB on 14183 2030-2330Z		

### Contests

CQ WPX CW May 24-25  
All Asian SSB June 14-15  
WW South American CW June 14-15  
Venezuelan SSB July 5-6  
IARU HF (nee Radiosport) July 12-13  
Venezuelan CW July 26-27

This issue of The DX Bulletin is brought to you through the kindness of the following **valued contributors**: KA1SR, N4NO, WA6PJR, W6GC, AB8K, W1CYB, KE7X, KA1XN, WB6ZUC, W4VQ, K4BAI, N3EUL, W8AH, KM9J, W7AWA, K1MEM, AE1H, KD7SO, N4XX, KH6BZF, W4JTL, KB6DYM, ZS6USA, N6BLN, Inside DX, Totem Tabloid, DXNS, DXpress. Many thanks!